```matlab
img  = imread("../images/greyscale2.jpg");
img = img(:, :, 1);

kernel_x = 100;
kernel_y = 30;
avg3by3 = ones(kernel_x, kernel_y) / (kernel_x * kernel_y);
filtered = filter2(avg3by3, img);
imshow(filtered, [0, 255]);
```